

Sea Range



The Sea Range is DoD's largest and most extensively instrumented over-water range. Located off the coast of Southern California and operated from Point Mugu, just 60 miles northwest of Los Angeles, the Sea Range is uniquely situated with a highly instrumented coastline and off-shore islands; full-service military airfields; target and missile launch facilities; data collection and surveillance aircraft; and an experienced staff of technical personnel.

The Point Mugu Sea Range consists of 36,000 square miles of controlled sea and airspace. Temporary expansion of the area is possible through coordination with local Navy facilities and the FAA. In order to support complex operations, the Sea Range regularly expands its available airspace to a total of more than 220,000 square miles. This enables programs to successfully complete missions which otherwise would not be possible.

The range supports the test and evaluation of a wide variety of weapons, ships, aircraft and specialized systems including directed energy high powered laser testing and hypersonic research. A broad spectrum of military, Homeland Defense, NASA, foreign ally and private sector programs are supported, from small-scale static tests to complex, multi-participant, multi-target operations in dense electronic combat environments.

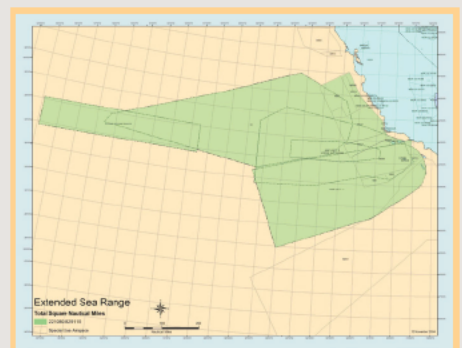
The only deep-water harbor between Los Angeles and San Francisco is just eight miles northwest of Point Mugu at Port Hueneme. Seaborne and littoral targets are available through the Port Hueneme facility, which provides surface craft for seaborne targets; boats for aerial target recovery; and vessels to enforce security and safety zones. The harbor also hosts commercial shipping activities available for program logistics and to supply offshore islands.



Operations Control Room Mike



Pacific Ranges airspace



Sea Range airspace can be expanded to more than 220,000 square miles

FOR MORE INFORMATION

(b) (6)

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INSTRUMENTATION

The Sea Range provides a full suite of instrumentation, including radar, telemetry, photo-optics and video, sea and air surveillance, voice communications, data processing and displays. Time, Space, Position Information (TSPI), telemetry, communications and geophysics support are available at the Sea Range. All data entering the Range Data System is available for real-time display and can be recorded for post-mission use. An extensive library of data products is available on almost any digital media.

Overlapping instrumentation coverage is accomplished from sites located at Point Mugu, Laguna Peak, San Nicolas Island, Santa Cruz Island, Vandenberg Air Force Base and Pillar Point. Ground-based assets are augmented by airborne instrumentation on NP-3D Orion aircraft to ensure effective data collection over the entire Sea Range. Dedicated high-speed data links enable real-time data transfer between Point Mugu and ranges and laboratories at China Lake, Vandenberg Air Force Base and Edwards Air Force Base. Real-time data transfer between almost any other facilities may also be established.

PROGRAM SUPPORT

- From small-scale, static tests to complex, multi-participant, multi-target operations in dense electronic combat environments
- Coordinated air, surface and submarine operations including carrier strike group exercises
- Submarine, surface and air-launched cruise weapons (ship and land-attack)
- Long-range, large hazard pattern weapons and experimental vehicle testing
- ICBM, missile defense and polar-orbit satellite launch support
- Littoral operations
- Joint engagement zone scenarios
- Multi-service, multinational test and evaluation and training exercises
- Directed energy testing
- Unmanned systems



Multi-nation exercise conducted on the Sea Range



Tomahawk submarine launch



USS Sterrett (DDG 104) Combat Systems Ship Qualification Trials